


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: SCHMIDT-24

In re Application of:)
VALERIAS SCHMIDT)
Int. Appl. No.: PCT/EP2004/008298)
Int. Filing Date: July 23, 2004)
For: ELECTRIC MACHINE WITH ROTOR COOLING AND CORRESPONDING COOLING METHOD)

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Express Mail mailing label number: EV 743531359 US
Date of Deposit: February 1, 2006
I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patents, Alexandria, VA 22313-1450.
ANTONELLA FUSILLO
(Name of person mailing paper or fee)

(Signature)

S I R:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of attention of the Examiner to the references listed on enclosed form PTO-1449 which were cited in the instant specification and in the International Search Report issued by the European Patent Office with regard to the corresponding International patent application No. PCT/EP2004/008298, respectively. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

Copies of these references are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

- ☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.
- ☒ This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.
- ☐ This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.
- ☐ The undersigned submits the following statement requesting consideration of this statement:
The undersigned hereby states:
 - ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;
 - ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart

foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

- ☐ The fee of \$180.00 set forth in 1.17(p).
- ☐ The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.
- ☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report. In addition, applicant notes with respect to any information that is not in English language as follows:

Furthermore, the publication US 5,889,342 discloses a motor cooling system, in which a rotor pressure ring is used for distributing a coolant in axially running cooling ducts of the rotor. In this case, the coolant flows through corresponding passages in the rotor pressure ring out of the hollow shaft radially outward and is deflected in the axial direction into the corresponding recesses of the rotor.

International Publication No. WO 02/071578 corresponds to European Patent Appl. No. EP 1 367 697 of which a copy is enclosed. EP 1 367 697 has a publication date of December 3, 2003, and thus is not available as prior art.

German Offenlegungsschrift DE 44 13 389 describes an electrical machine having two laminated rotor cores (1, 2) which are arranged at an axial distance from one another on a common shaft (3), two laminated stator cores (4, 5) which are arranged at a corresponding distance from one another, and a cooling device which has an air feed device (25) as well as cooling ducts (21) running in the axial

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direction. The cooling ducts are divided into two sections as a consequence of the axial distance between the laminated cores (1, 2, 4, 5) and are connected to the air feed device (25) in such a manner that the flow passes through the two sections of each cooling duct (21) in the opposite direction, and the cooling air is deflected from an axial direction into a radial direction, or vice versa, in the annular space (7) between the laminated cores (1, 2, 4, 5). The axial distance between the laminated cores (1, 2, 4, 5) is selected such that the available flow cross-section in the annular space (7) between the laminated cores (1, 2, 4, 5) for the cooling air is approximately equal to the sum of the flow cross-sections of all the cooling ducts (18, 18', 21) which open directly into this annular space (7).

The above-identified application discloses and claims an invention patentable over this prior art.

Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

Respectfully submitted

By: 

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Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

INFORMATION DISCLOSURE CITATION

Attorney's Docket No. SCHMIDT-24	Applicant VALERIAS SCHMIDT	Int. Appl. No. 10/566859 PCT/EP2004/008298
Int. Filing Date July 23, 2004	Group	Examiner

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, if appropriate
	5,889,342	03-30-1999	Hasebe et al.			
	5,925,960	07-20-1999	Hayes			
	2,610,992	09-16-1952	F. J. Johns et al.			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation
	JP 09 093868 A	04-04-1997	Japan			Abstract
	FR 1 350 043 A	01-24-1964	France			No
	DE 158 006 C	01-19-1905	Germany			No
	WO 02/071578 A	09-12-2002	PCT			Abstract
	JP 2002 125352	04-26-2002	Japan			Abstract
	DE 44 13 389	12-01-1994	Germany			No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner:

Date considered:

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.